CHEMISTRY
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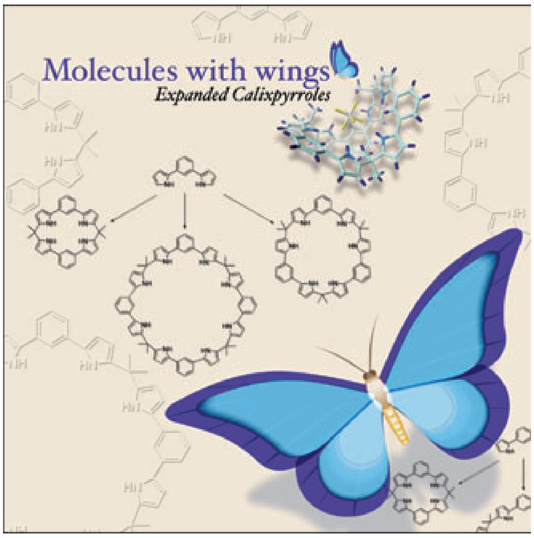
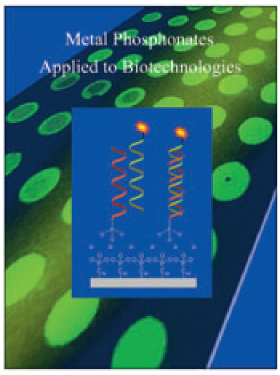
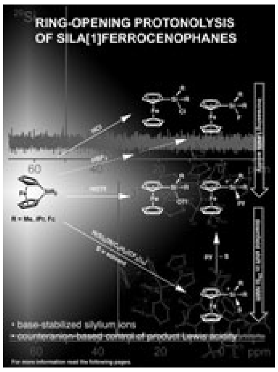
Wing-like molecules…



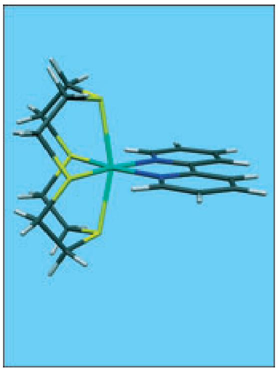
… are produced when the basic calixpyrrole skeleton is expanded by the use of bispyrrolylbenzene building blocks. These folded species display shape-selective anion-binding properties in solution and in the solid state. The extent of folding depends on the size of the system involved and the nature of the bound anion, with the most elegant “butterfly-like” behavior being seen in the case of the systems containing three pyrrole and three bispyrrolylbenzene subunits as highlighted by the X-ray structure included within this cover picture illustration. For more information, see the article by J. L. Sessler et al. on page 2001 ff. The artwork was generated by Suzi Eller (www.mindfracture.net) using Adobe Photoshop software.



Microarrays
Solid supports modified with a mixed organic/inorganic zirconium phosphonate monolayer film provide a stable, well-defined interface. Oligonucleotide probes terminated with phosphate can be spotted directly on to the zirconated surface forming a covalent linkage. Specific binding of terminal phosphate groups with minimal binding of the internal phosphate diesters has been demonstrated. Ideas for interfacing mixed organic/inorganic interfaces to other bioapplications are also discussed in the Concept article by B. Bujoli, D. R. Talham et al. on page 1980 ff.



Stabilized Silylium Ions
I. Manners and co-workers describe on p. 1989 ff how ring-opening protonolysis of sila[1]ferrocenophanes using a variety of acids provides a synthetic route to base-stabilized silylium ions.



Coordination Complexes
Detailed experimental and computational studies on the energetics and dynamics of invertomer formation and conversion in a series of macrocyclic coordination complexes is described in the article by V. Félix, B. E. Mann, J. A. Thomas et al. on page 2031 ff.

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